Curriculum Vitae

Personal Information

Title	**Pf.**
Name	**Don-Soo Kim**
Degree	**PhD**
Country	**USA**
Affiliation	**Harvard Medical School / Boston Children's Hospital**

Educational Background

2004 PhD Department of Physics and Applied Physics (Physics - Radiological Health option), University of Massachusetts, Lowell, MA

2002 MSc Department of Physics and Applied Physics (Radiological Science and Protection) University of Massachusetts, Lowell, MA

1990 MSc Department of Physics and Applied Physics (Solid State Physics) Kyung Hee University, South Korea

1990 BS Department of Physics and Applied Physics Kyung Heee University, South Korea

Professional Career

2011-Current, American Board of Radiology Certified Diagnostic Medical Physicist

2003-Current, Medical Imaging Physicist, Radiology Department, Boston Children's Hospital, Boston, MA, USA

2015-Current, Faculty, Radiology Department, Harvard Medical School, Boston, MA, USA

2015-Current, Faculty, Physics Department, Worcester Polytechnic Institute, Worcester, MA, USA

2022-Current, Director of MnM Medical Mission, IACD, CA, USA

Research Field

Diagnostic Radiation Dosimetry, Diagnostic Image Quality Optimization, Imaging Protocol Management, Supervision of Accreditation Application of Diagnostic Imaging Modalities (MRI, Ultrasound, CT), Development of Quality Assurance Program of Diagnostic Imaging, Calibration of Radiation Detector in Diagnostic Radiation Ranges, Dose reduction and Image Quality Improvement in Dental X-ray and Bi-plane Scanning Radiography, Consultation in FDA and State regulation for Medical Ionizing Radiation, Mixed Beam Dosimetry in Accelerator-based Boron Neutron Capture Therapy (BNCT), Examination writer for American Board of Radiology Online Longitudinal Assessment (ABR OLA), Fluoroscopy Operation and Safety for pediatric patient and staff, and Automatic Optimal Selection of Radiographic Technique, etc.

Main Scientific Publications

- Radiation dose estimation of pediatric upper extremity radiographs. Pediatr Radiol. 2025 Jun 17.
- Age-specific Dose Catalog for Diagnostic Fluoroscopy and Fluoroscopically Guided Interventional Procedures from a Pediatric Hospital. Radiology. 2024 Jan;310(1):e232128.
- Minimizing Surgeon Radiation Exposure During Operative Treatment of Pediatric Supracondylar Humerus Fractures. J Pediatr Orthop. 2023 Aug 1;43(7):414-417.
- Patient Radiation Doses in Interventional Radiology Procedures: The American College of Radiology Dose Index Registry-Fluoroscopy (DIR-Fluoro) Pilot J Vasc Interv Radiol. 2023 Apr;34(4):544-555.e11.
- Patient Radiation Doses in Interventional Radiology Procedures: Comparison of Fluoroscopy Dose Indices between the American College of Radiology Dose Index Registry-Fluoroscopy Pilot and the Radiation Doses in Interventional Radiology Study. J Vasc Interv Radiol. 2023 Apr;34(4):556-562.e3.
- AAPM Task Group Report 272: Comprehensive acceptance testing and evaluation of fluoroscopy imaging systems. Med Phys. 2022; 49: e1-e49.

- The American College of Radiology Fluoroscopy Dose Index Registry Pilot: Technical Considerations and Dosimetric Performance of the Interventional Fluoroscopes J Vasc Interv Radiol. 2020 Oct;31(10):1545-1550.e1.
- Image quality evaluation of ultrasound imaging systems: advanced B-modes. J Appl Clin Med Phys 2019; 3: 115-124. Awarded Edwin C. McCullough Award of Excellence for an Outstanding Medical Imaging Physics Article. AAPM Newsletter, May/June 2020. 45 (3).
- The effect of surgeon versus technologist control of fluoroscopy on radiation exposure during pediatric ureteroscopy: A randomized trial. J Pediatr Urol. 2018; 14: 334.e1 – 334.e8.
- Accuracy and calibration of integrated radiation output indicators in diagnostic radiology: A report of the AAPM Imaging Physics Committee Task Group 190. Med Phys. 2015; 42: 6815 - 6829.